

ABSTRACT OF THE DISCLOSURE

In the embodiments described in the specification, a spark-ignited internal combustion engine has an exhaust line containing an oxide gas absorber for absorbing  $\text{NO}_x$  and  $\text{SO}_x$  and desorbing  $\text{NO}_x$  and  $\text{SO}_x$  at elevated temperatures. The support member  
5 for the oxide gas absorber is a metal foil or a thin walled ceramic support to permit rapid heating and is coated with a layer of a gas absorbing material at least 50 microns thick to permit longer intervals between regeneration, thereby providing effective storage of oxide gases even with fuel consumption-optimized engines.